

CLAIM AMENDMENTS

Claim 1. (currently amended) Boring rig ~~(14)~~ for underground ~~excavating~~ boring for excavation purposes and including a substructure ~~(21, 22)~~, propulsion means for rig travel along a drift, stabilizing means ~~(31, 32, 35, 36, 37, 38, 39, 42)~~, and a boring unit ~~(20)~~ having a cutter head ~~(29)~~ and a rotation and forcing means ~~(26)~~, wherein the rig has a first direction of general travel and two sideways directions, and wherein the boring unit ~~(20)~~ is pivotally attached to the substructure for pivotal movement of the boring unit into an operating direction, ~~characterized in that~~ wherein the stabilizing means include horizontal ~~(31, 32)~~ and vertical ~~(35, 36, 37, 38, 39)~~ stabilizing means that are directly attached to the substructure ~~(21, 22)~~ in order, in active positions, to be pressed against an adjacent rock face so as to transmit forces from the boring unit ~~(20)~~, that are occurring during boring, to said rock face; said boring unit being pivotal over pivot means comprising rotation joints attached to the substructure at separate locations along the first direction; said horizontal stabilizing means comprising sideways directed horizontal jacks positioned on each side of said substructure; and force

transmitting means provided between each said rotation joint and a holder for one of said horizontal jacks.

Claim 2. (currently amended) Boring rig according to claim 1, ~~characterized in that~~ wherein the boring unit ~~(20)~~ is pivotal for operation in directions essentially perpendicular to the first direction and including one sideways direction.

Claim 3. (cancelled)

Claim 4. (currently amended) Boring rig according to claim 1, ~~characterized in that~~ wherein at least one actuator ~~(41)~~ is arranged between the substructure ~~(21)~~ and the boring unit ~~(20)~~ for pivotally moving the boring unit.

Claim 5. (cancelled)

Claim 6. (cancelled)

Claim 7. (currently amended) Boring rig according to claim ~~1-5~~, ~~characterized in that~~ wherein each holder ~~(33)~~ for a horizontal jack is attached to a respective side member of the substructure.

Claim 8. (currently amended) Boring rig according to claim 1 ~~5~~ , ~~characterized in that~~ wherein each holder ~~(33)~~ for a horizontal jack is integral with a stationary part of a respective pivot means.

Claim 9. (currently amended) Boring rig according to claim 1 ~~3~~ , ~~characterized in that~~ wherein the vertical stabilizing means ~~(35, 36, 37, 38, 39)~~ are vertically directed vertical jacks positioned on the substructure.

Claim 10. (currently amended) Boring rig according to claim 1, ~~characterized in that~~ wherein the boring unit ~~(20)~~ is pivotally attached at a bottom portion to the substructure.

Claim 11. (currently amended) Boring rig according to claim 1, ~~characterized in that~~ wherein the boring unit ~~(20)~~ is pivotally attached at a rear portion to the substructure.

Claim 12. (currently amended) Boring rig according to claim 1, ~~characterized in that~~ wherein the boring unit includes a front ~~(23)~~ and a rear ~~(24)~~ frame portion which are separated by linear guide means ~~(25)~~ for guiding bore string rotation and forcing means ~~(26)~~ .

Claim 13. (currently amended) Boring rig according to claim 12, ~~characterized in that~~ wherein each pivot means ~~(30)~~ are attached to the rear frame portion ~~(24)~~ .

Claim 14. (currently amended) Boring rig according to claim 12, ~~characterized in that~~ wherein each frame portion is comprised of a piece of metal plate.

Claim 15. (currently amended) Boring rig according to claim 1, ~~characterized in that~~ wherein the boring unit ~~(20)~~ at an upper, rear portion is provided with sideways stabilizing means ~~(42)~~ for acting against a rock face in directions which are essentially opposite to the operating direction of the boring unit ~~(20)~~ .

Claim 16. (currently amended) Boring rig for underground boring for excavation purposes and including a substructure, propulsion means for rig travel along a drift, stabilizing means, and a boring unit having a cutter head and a rotation and forcing means, wherein the rig has a first direction of general travel and two sideways directions, and wherein the boring unit is pivotally attached to the substructure for pivotal movement of the boring unit into an operating direction, wherein the stabilizing means include horizontal and vertical stabilizing means that are directly attached to the substructure in order, in

active positions, to be pressed against an adjacent rock face so as to transmit forces from the boring unit, that are occurring during boring, to said rock face ~~according to claim 1, characterized in that it~~ wherein said boring rig includes a control unit for controlling setting of the stabilizing means ~~(32, 32, 35, 36, 37, 38, 39, 42)~~ and for controlling boring unit ~~(20)~~ positioning and elevation.

Claim 17. (currently amended) Boring rig according to claim 16, ~~characterized in that~~ wherein the control unit is capable of setting the stabilizing means ~~(31, 32, 35, 36, 37, 38, 39, 42)~~ so as to tilt the boring rig ~~(14)~~ at predetermined angles with respect to a supporting ground.

Claim 18. (currently amended) Boring rig according to claim 1, ~~characterized in that it~~ wherein said boring rig includes a drill string component supply and drill string joining means.

Claim 19. (cancelled)

Claim 20. (cancelled)